Section 1. Registration Information

Source Identification

Facility Name:	Avantor Phillipsburg Plant
Parent Company #1 Name:	Avantor Performance Materials, LLC.
Parent Company #2 Name:	

Submission and Acceptance

Submission Type:	Re-submission
Subsequent RMP Submission Reason:	5-year update (40 CFR 68.190(b)(1))
Description:	EPA RMP version, Mallinckrodt Baker, 6 5 09
Receipt Date:	15-Jul-2019
Postmark Date:	15-Jul-2019
Next Due Date:	15-Jul-2024
Completeness Check Date:	15-Jul-2019
Complete RMP:	Yes
De-Registration / Closed Reason:	
De-Registration / Closed Reason Other Text:	
De-Registered / Closed Date:	
De-Registered / Closed Effective Date:	
Certification Received:	Yes

Facility Identification

EPA Facility Identifier:	1000 0016 1095
Other EPA Systems Facility ID:	08865JTBKR600NO
Facility Registry System ID:	

Dun and Bradstreet Numbers (DUNS)

Facility DUNS:	4952123
Parent Company #1 DUNS:	1213487
Parent Company #2 DUNS:	

Facility Location Address

Street 1:	600 N Broad St
Street 2:	
City:	Phillipsburg
State:	NEW JERSEY
ZIP:	08865
ZIP4:	
County:	WARREN

Facility Latitude and Longitude

Latitude (decimal):	40.703056
Longitude (decimal):	-075.196111
Lat/Long Method:	Classical Surveying Techniques
Lat/Long Description:	Center of Facility
Horizontal Accuracy Measure:	25
Horizontal Reference Datum Name:	North American Datum of 1983
Source Map Scale Number:	

Owner or Operator

Operator Name:	Avantor Performance Materials, LLC.
Operator Phone:	(908) 859-9468

Mailing Address

Operator Street 1:	100 Matsonford Rd.
Operator Street 2:	Building 1, Suite 200
Operator City:	Radnor
Operator State:	PENNSYLVANIA
Operator ZIP:	19087
Operator ZIP4:	
Operator Foreign State or Province:	
Operator Foreign ZIP:	
Operator Foreign Country:	

Name and title of person or position responsible for Part 68 (RMP) Implementation

RMP Name of Person:	Gregory Meister
RMP Title of Person or Position:	Phillipsburg Plant Manager
RMP E-mail Address:	gregory.meister@avantorsciences.com

Emergency Contact

Emergency Contact Name:	Gregory Meister
Emergency Contact Title:	Phillipsburg Plant Manager
Emergency Contact Phone:	(908) 859-9468
Emergency Contact 24-Hour Phone:	(908) 859-9468
Emergency Contact Ext. or PIN:	39487
Emergency Contact E-mail Address:	N/A

Other Points of Contact

Facility or Parent Company E-mail Address:	
Facility Public Contact Phone:	
Facility or Parent Company WWW Homepage Address:	

Local Emergency Planning Committee

LEPC:	Warren County OEM

Full Time Equivalent Employees

Number of Full Time Employees (FTE) on Site:	203
FTE Claimed as CBI:	

Covered By

OSHA PSM :	Yes
EPCRA 302 :	Yes
CAA Title V:	Yes

Air Operating Permit ID:	PI 85442

OSHA Ranking

OSHA Star or Merit Ranking:	

Last Safety Inspection

Last Safety Inspection (By an External Agency) Date:	01-May-2019
Last Safety Inspection Performed By an External Agency:	State environmental agency

Predictive Filing

Did this RMP involve predictive filing?:	

Preparer Information

Preparer Name:	
Preparer Phone:	
Preparer Street 1:	
Preparer Street 2:	
Preparer City:	
Preparer State:	
Preparer ZIP:	
Preparer ZIP4:	
Preparer Foreign State:	
Preparer Foreign Country:	
Preparer Foreign ZIP:	

Confidential Business Information (CBI)

CBI Claimed:	
Substantiation Provided:	
Unsanitized RMP Provided:	

Reportable Accidents

Reportable Accidents:	See Section 6. Accident History below to determine if there were any accidents reported for this RMP.

Process Chemicals

Process ID:	1000101489
Description:	Distribution
Process Chemical ID:	1000127190
Program Level:	Program Level 3 process
Chemical Name:	Ammonia (conc 20% or greater)
CAS Number:	7664-41-7
Quantity (lbs):	108300
CBI Claimed:	
Flammable/Toxic:	Toxic

Process ID:	1000101489
Description:	Distribution
Process Chemical ID:	1000127191
Program Level:	Program Level 3 process
Chemical Name:	Pentane
CAS Number:	109-66-0
Quantity (lbs):	25000
CBI Claimed:	
Flammable/Toxic:	Flammable

Process ID:	1000101489
Description:	Distribution
Process Chemical ID:	1000127192
Program Level:	Program Level 3 process
Chemical Name:	Ethyl ether [Ethane, 1,1'-oxybis-]
CAS Number:	60-29-7
Quantity (lbs):	30000
CBI Claimed:	
Flammable/Toxic:	Flammable

Process ID:	1000101489
Description:	Distribution
Process Chemical ID:	1000127193
Program Level:	Program Level 3 process
Chemical Name:	Hydrochloric acid (conc 37% or greater)
CAS Number:	7647-01-0
Quantity (lbs):	190000
CBI Claimed:	
Flammable/Toxic:	Toxic

Process ID:	1000101489
Description:	Distribution
Process Chemical ID:	1000127194
Program Level:	Program Level 3 process
Chemical Name:	Ammonia (anhydrous)
CAS Number:	7664-41-7
Quantity (lbs):	2000
CBI Claimed:	
Flammable/Toxic:	Toxic

Process ID:	1000101490
Description:	Solvents
Process Chemical ID:	1000127195
Program Level:	Program Level 3 process
Chemical Name:	Pentane
CAS Number:	109-66-0
Quantity (lbs):	25000

CBI Claimed:	
Flammable/Toxic:	Flammable

Process ID:	1000101490
Description:	Solvents
Process Chemical ID:	1000127196
Program Level:	Program Level 3 process
Chemical Name:	Ethyl ether [Ethane, 1,1'-oxybis-]
CAS Number:	60-29-7
Quantity (lbs):	1
CBI Claimed:	
Flammable/Toxic:	Flammable

Process ID:	1000101491
Description:	Acid-Salt
Process Chemical ID:	1000127197
Program Level:	Program Level 3 process
Chemical Name:	Ammonia (anhydrous)
CAS Number:	7664-41-7
Quantity (lbs):	51000
CBI Claimed:	
Flammable/Toxic:	Toxic

Process ID:	1000101491
Description:	Acid-Salt
Process Chemical ID:	1000127198
Program Level:	Program Level 3 process
Chemical Name:	Ammonia (conc 20% or greater)
CAS Number:	7664-41-7
Quantity (lbs):	56370
CBI Claimed:	
Flammable/Toxic:	Toxic

Process ID:	1000101491
Description:	Acid-Salt
Process Chemical ID:	1000127199
Program Level:	Program Level 3 process
Chemical Name:	Hydrochloric acid (conc 37% or greater)
CAS Number:	7647-01-0
Quantity (lbs):	76760
CBI Claimed:	
Flammable/Toxic:	Toxic

Process NAICS

Process ID:	1000101490

Process NAICS ID:	1000102733
Program Level:	Program Level 3 process
NAICS Code:	325199
NAICS Description:	All Other Basic Organic Chemical Manufacturing

Process ID:	1000101491
Process NAICS ID:	1000102734
Program Level:	Program Level 3 process
NAICS Code:	32518
NAICS Description:	Other Basic Inorganic Chemical Manufacturing

Process ID:	1000101489
Process NAICS ID:	1000102735
Program Level:	Program Level 3 process
NAICS Code:	32518
NAICS Description:	Other Basic Inorganic Chemical Manufacturing

Process ID:	1000101489
Process NAICS ID:	1000102731
Program Level:	Program Level 3 process
NAICS Code:	325199
NAICS Description:	All Other Basic Organic Chemical Manufacturing

Section 2. Toxics: Worst Case

Toxic Worst ID: 1000081186

Percent Weight:	
Physical State:	Gas liquified by pressure
Model Used:	EPA's RMP*Comp(TM)
Release Duration (mins):	10
Wind Speed (m/sec):	1.5
Atmospheric Stability Class:	F
Topography:	Urban

Passive Mitigation Considered

Dikes:	Yes
Enclosures:	
Berms:	
Drains:	
Sumps:	
Other Type:	

Toxic Worst ID: 1000081187

Percent Weight:	38.0
Physical State:	Liquid
Model Used:	EPA's RMP*Comp(TM)
Release Duration (mins):	10
Wind Speed (m/sec):	1.5
Atmospheric Stability Class:	F
Topography:	Urban

Passive Mitigation Considered

Dikes:	Yes
Enclosures:	
Berms:	
Drains:	
Sumps:	
Other Type:	

Toxic Worst ID: 1000081188

Percent Weight:	30.0
Physical State:	Liquid
Model Used:	EPA's RMP*Comp(TM)
Release Duration (mins):	10
Wind Speed (m/sec):	1.5
Atmospheric Stability Class:	F
Topography:	Urban

Passive Mitigation Considered

Dikes:	Yes
Enclosures:	
Berms:	

Drains:
Sumps:
Other Type:

Section 3. Toxics: Alternative Release

Toxic Alter ID: 1000086657

Percent Weight:	
Physical State:	Gas liquified by pressure
Model Used:	EPA's RMP*Comp(TM)
Wind Speed (m/sec):	3.0
Atmospheric Stability Class:	D
Topography:	Urban

Passive Mitigation Considered

Dikes:	Yes
Enclosures:	
Berms:	
Drains:	
Sumps:	
Other Type:	

Active Mitigation Considered

Sprinkler System:	
Deluge System:	
Water Curtain:	
Neutralization:	
Excess Flow Valve:	
Flares:	
Scrubbers:	
Emergency Shutdown:	Yes
Other Type:	Foam Vapor Supression

Toxic Alter ID: 1000086658

Percent Weight:	30.0
Physical State:	Liquid
Model Used:	EPA's RMP*Comp(TM)
Wind Speed (m/sec):	3.0
Atmospheric Stability Class:	D
Topography:	Urban

Passive Mitigation Considered

Dikes:	
Enclosures:	
Berms:	
Drains:	Yes
Sumps:	
Other Type:	

Active Mitigation Considered

Sprinkler System:	
Deluge System:	
Water Curtain:	
Neutralization:	
Excess Flow Valve:	
Flares:	
Scrubbers:	

Emergency Shutdown:	Yes
Other Type:	

Toxic Alter ID: 1000086659

Percent Weight:	38.0
Physical State:	Liquid
Model Used:	EPA's RMP*Comp(TM)
Wind Speed (m/sec):	3.0
Atmospheric Stability Class:	D
Topography:	Urban

Passive Mitigation Considered

Dikes:	
Enclosures:	
Berms:	
Drains:	
Sumps:	
Other Type:	Inside Building

Active Mitigation Considered

Sprinkler System:	
Deluge System:	
Water Curtain:	
Neutralization:	
Excess Flow Valve:	
Flares:	
Scrubbers:	
Emergency Shutdown:	Yes
Other Type:	

Section 4. Flammables: Worst Case

Flammable Worst ID: 1000060545

Model Used:	EPA's RMP*Comp(TM)
Endpoint used:	1 PSI

Passive Mitigation Considered

Blast Walls:	
Other Type:	

Section 5. Flammables: Alternative Release

Flammable Alter ID: 1000056899

Model Used:	EPA's OCA Guidance Reference Tables or Equations

Passive Mitigation Considered

Dikes:	
Fire Walls:	
Blast Walls:	
Enclosures:	
Other Type:	None

Active Mitigation Considered

Sprinkler System:	
Deluge System:	
Water Curtain:	
Excess Flow Valve:	
Other Type:	None

Section 6. Accident History

No records found.

Section 7. Program Level 3

Description

Solvents - Temporarily Discontinued 2/18/11. This process includes flammable solvent processing and packaging operations, and the prevention program applies to all areas in the process. STANDARD OPERATING PROCEDURES - All employees are trained and qualified in safe processing operations. PROCESS VENT FLAME ARRESTERS and NITROGEN INERTING - Used to prevent process fires. MANAGEMENT OF CHANGE - Authorization is required for all changes affecting equipment, procedures, or facilities. EMERGENCY RESPONSE PROGRAM - comprehensive plan including employee training, fire, and spill response equipment, on-site medical facilities, and procedures for facility drills. VENTS AND RELIEF VALVES -prevent unplanned release of chemicals due to process upsets. ACTIVE MITIGATION EQUIPMENT - consists of foam vapor suppression, prevents fire at the tank truck unloading facility.

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	1000106918
Chemical Name:	Ethyl ether [Ethane, 1,1'-oxybis-]
Flammable/Toxic:	Flammable
CAS Number:	60-29-7

Process ID:	1000101490
Description:	Solvents
Prevention Program Level 3 ID:	1000085724
NAICS Code:	325199

Prevention Program Chemical ID:	1000106917
Chemical Name:	Pentane
Flammable/Toxic:	Flammable
CAS Number:	109-66-0

Process ID:	1000101490
Description:	Solvents
Prevention Program Level 3 ID:	1000085724
NAICS Code:	325199

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	31-Mar-2019

Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	23-Sep-2016

The Technique Used

What If:	
Checklist:	
What If/Checklist:	Yes
HAZOP:	Yes
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	31-Dec-2019

Major Hazards Identified

Toxic Release:	
Fire:	Yes
Explosion:	
Runaway Reaction:	
Polymerization:	
Overpressurization:	Yes
Corrosion:	
Overfilling:	
Contamination:	
Equipment Failure:	
Loss of Cooling, Heating, Electricity, Instrument Air:	
Earthquake:	
Floods (Flood Plain):	
Tornado:	
Hurricanes:	
Other Major Hazard Identified:	

Process Controls in Use

Vents:	Yes
Relief Valves:	Yes
Check Valves:	
Scrubbers:	
Flares:	
Manual Shutoffs:	Yes
Automatic Shutoffs:	Yes
Interlocks:	Yes
Alarms and Procedures:	Yes
Keyed Bypass:	
Emergency Air Supply:	
Emergency Power:	Yes
Backup Pump:	
Grounding Equipment:	Yes
Inhibitor Addition:	
Rupture Disks:	Yes
Excess Flow Device:	
Quench System:	
Purge System:	

None:
Other Process Control in Use:

Mitigation Systems in Use

Sprinkler System:	Yes
Dikes:	Yes
Fire Walls:	
Blast Walls:	
Deluge System:	
Water Curtain:	
Enclosure:	
Neutralization:	
None:	
Other Mitigation System in Use:	Foam fire suppression

Monitoring/Detection Systems in Use

Process Area Detectors:	Yes
Perimeter Monitors:	
None:	
Other Monitoring/Detection System in Use:	

Changes Since Last PHA Update

Reduction in Chemical Inventory:	Yes
Increase in Chemical Inventory:	
Change Process Parameters:	
Installation of Process Controls:	Yes
Installation of Process Detection Systems:	
Installation of Perimeter Monitoring Systems:	
Installation of Mitigation Systems:	
None Recommended:	
None:	
Other Changes Since Last PHA or PHA Update:	

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures):	31-Mar-2019

Training

Training Revision Date (The date of the most recent review or revision of training programs):	31-Mar-2019

The Type of Training Provided

Classroom:	Yes
On the Job:	Yes
Other Training:	

The Type of Competency Testing Used

Written Tests:	Yes
Oral Tests:	
Demonstration:	Yes
Observation:	
Other Type of Competency Testing Used:	

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures):	31-Mar-2019
Equipment Inspection Date (The date of the most recent equipment inspection or test):	01-May-2019
Equipment Tested (Equipment most recently inspected or tested):	Plant foam systems trip test

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures):	29-Feb-2012
Change Management Revision Date (The date of the most recent review or revision of management of change procedures):	09-Nov-2018

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review):	12-May-2015

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit):	01-May-2019
Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit):	01-May-2019

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)):	
Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation):	

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans):	31-Mar-2019

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures):	31-Mar-2019

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures):	31-Mar-2019
Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance):	08-Mar-2017

Confidential Business Information

CBI Claimed:

Description

ACIDS/SALTS - This process includes acid and inorganic salts, manufacturing, and packaging. The acids business contains equipment for processing and packaging acid and ammonia-based products. The salts business contains equipment for processing and packaging. Acids/Base salts products. The prevention programs are outlined by business. ACIDS - Scrubbers, high level shutoffs, and excess flow valves are used for process controls. Remote sensors/foam suppression and dikes are used for mitigation; vents, relief valves, and rupture disks are used to prevent unplanned release due to process upset. SALTS - Scrubbers and excess flow valves are used for process control. Vents, relief valves, and rupture disks are used to prevent unplanned release due to process upset. BOTH - Standard operating procedures, all employees are trained and qualified in safe processing operations; emergency response program-comprehensive plan includes training and procedures.

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	1000106921
Chemical Name:	Hydrochloric acid (conc 37% or greater)
Flammable/Toxic:	Toxic
CAS Number:	7647-01-0
Process ID:	1000101491
Description:	Acid-Salt
Prevention Program Level 3 ID:	1000085726
NAICS Code:	32518
Prevention Program Chemical ID:	1000106919
Chemical Name:	Ammonia (anhydrous)
Flammable/Toxic:	Toxic
CAS Number:	7664-41-7
Process ID:	1000101491
Description:	Acid-Salt
Prevention Program Level 3 ID:	1000085726
NAICS Code:	32518
Prevention Program Chemical ID:	1000106920
Chemical Name:	Ammonia (conc 20% or greater)
Flammable/Toxic:	Toxic
CAS Number:	7664-41-7
Process ID:	1000101491
Description:	Acid-Salt
Prevention Program Level 3 ID:	1000085726
NAICS Code:	32518

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	31-Mar-2019

Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	18-Dec-2018

The Technique Used

What If:	
Checklist:	
What If/Checklist:	Yes
HAZOP:	Yes
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	31-Dec-2019

Major Hazards Identified

Toxic Release:	Yes
Fire:	
Explosion:	
Runaway Reaction:	
Polymerization:	
Overpressurization:	
Corrosion:	
Overfilling:	
Contamination:	
Equipment Failure:	
Loss of Cooling, Heating, Electricity, Instrument Air:	
Earthquake:	
Floods (Flood Plain):	
Tornado:	
Hurricanes:	
Other Major Hazard Identified:	

Process Controls in Use

Vents:	Yes
Relief Valves:	Yes
Check Valves:	Yes
Scrubbers:	Yes
Flares:	
Manual Shutoffs:	Yes
Automatic Shutoffs:	Yes
Interlocks:	
Alarms and Procedures:	Yes
Keyed Bypass:	
Emergency Air Supply:	
Emergency Power:	
Backup Pump:	
Grounding Equipment:	
Inhibitor Addition:	
Rupture Disks:	Yes
Excess Flow Device:	Yes

Quench System:	
Purge System:	
None:	
Other Process Control in Use:	

Mitigation Systems in Use

Sprinkler System:	Yes
Dikes:	Yes
Fire Walls:	
Blast Walls:	
Deluge System:	
Water Curtain:	
Enclosure:	
Neutralization:	
None:	
Other Mitigation System in Use:	Remotely activated vapor suppression system

Monitoring/Detection Systems in Use

Process Area Detectors:	Yes
Perimeter Monitors:	
None:	
Other Monitoring/Detection System in Use:	

Changes Since Last PHA Update

Reduction in Chemical Inventory:	
Increase in Chemical Inventory:	
Change Process Parameters:	
Installation of Process Controls:	
Installation of Process Detection Systems:	
Installation of Perimeter Monitoring Systems:	
Installation of Mitigation Systems:	
None Recommended:	Yes
None:	
Other Changes Since Last PHA or PHA Update:	

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures):	31-Mar-2019

Training

Training Revision Date (The date of the most recent review or revision of training programs):	31-Mar-2019

The Type of Training Provided

Classroom:	Yes
On the Job:	Yes
Other Training:	

The Type of Competency Testing Used

Written Tests:	Yes
Oral Tests:	
Demonstration:	Yes
Observation:	
Other Type of Competency Testing Used:	

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures):	31-Mar-2019
Equipment Inspection Date (The date of the most recent equipment inspection or test):	01-May-2019
Equipment Tested (Equipment most recently inspected or tested):	Fire Protective Systems

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures):	24-Jun-2016
Change Management Revision Date (The date of the most recent review or revision of management of change procedures):	09-Nov-2018

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review):	01-Aug-2018

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit):	01-May-2019
Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit):	01-May-2019

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)):	
Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation):	

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans):	31-Mar-2019

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures):	31-Mar-2019

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures):	31-Mar-2019
Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance):	08-Mar-2017

Confidential Business Information

CBI Claimed:

Description

DISTRIBUTION/STORAGE - This process includes indoor warehousing, staging, and shipping areas, and the prevention program applies to all areas in the process. CONTAINMENT - All distribution/storage areas are inherently spill-containing. The building walls also provide passive mitigation. STANDARD OPERATING PROCEDURES - All employees are trained and qualified in safe handling of EHS chemicals. MANAGEMENT OF CHANGE - Authorization is required for all changes affecting equipment, procedures, or facility. EMERGENCY RESPONSE PROGRAM - Comprehensive plan includes employee training, fire and spill response equipment, on-site medical facilities, and procedures for facility drills.

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	1000107086
Chemical Name:	Hydrochloric acid (conc 37% or greater)
Flammable/Toxic:	Toxic
CAS Number:	7647-01-0

Process ID:	1000101489
Description:	Distribution
Prevention Program Level 3 ID:	1000085825
NAICS Code:	32518

Prevention Program Chemical ID:	1000107088
Chemical Name:	Ammonia (conc 20% or greater)
Flammable/Toxic:	Toxic
CAS Number:	7664-41-7

Process ID:	1000101489
Description:	Distribution
Prevention Program Level 3 ID:	1000085825
NAICS Code:	32518

Prevention Program Chemical ID:	1000107087
Chemical Name:	Ethyl ether [Ethane, 1,1'-oxybis-]
Flammable/Toxic:	Flammable
CAS Number:	60-29-7

Process ID:	1000101489
Description:	Distribution
Prevention Program Level 3 ID:	1000085825
NAICS Code:	32518

Prevention Program Chemical ID:	1000107089
Chemical Name:	Pentane
Flammable/Toxic:	Flammable
CAS Number:	109-66-0

Process ID:	1000101489
Description:	Distribution
Prevention Program Level 3 ID:	1000085825
NAICS Code:	32518

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	31-Mar-2019

Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	14-Oct-2016

The Technique Used

What If:	
Checklist:	
What If/Checklist:	Yes
HAZOP:	Yes
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	31-Dec-2019

Major Hazards Identified

Toxic Release:	Yes
Fire:	Yes
Explosion:	
Runaway Reaction:	
Polymerization:	
Overpressurization:	
Corrosion:	
Overfilling:	
Contamination:	
Equipment Failure:	
Loss of Cooling, Heating, Electricity, Instrument Air:	
Earthquake:	
Floods (Flood Plain):	
Tornado:	
Hurricanes:	
Other Major Hazard Identified:	

Process Controls in Use

Vents:	
Relief Valves:	
Check Valves:	
Scrubbers:	
Flares:	
Manual Shutoffs:	
Automatic Shutoffs:	

Interlocks:	
Alarms and Procedures:	Yes
Keyed Bypass:	
Emergency Air Supply:	
Emergency Power:	
Backup Pump:	
Grounding Equipment:	
Inhibitor Addition:	
Rupture Disks:	
Excess Flow Device:	
Quench System:	
Purge System:	
None:	
Other Process Control in Use:	Containment/passive mitigation

Mitigation Systems in Use

Sprinkler System:	Yes
Dikes:	Yes
Fire Walls:	
Blast Walls:	
Deluge System:	
Water Curtain:	
Enclosure:	Yes
Neutralization:	
None:	
Other Mitigation System in Use:	

Monitoring/Detection Systems in Use

Process Area Detectors:	
Perimeter Monitors:	
None:	Yes
Other Monitoring/Detection System in Use:	

Changes Since Last PHA Update

Reduction in Chemical Inventory:	
Increase in Chemical Inventory:	
Change Process Parameters:	
Installation of Process Controls:	
Installation of Process Detection Systems:	
Installation of Perimeter Monitoring Systems:	
Installation of Mitigation Systems:	
None Recommended:	Yes
None:	
Other Changes Since Last PHA or PHA Update:	

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures):	31-Mar-2019

Training

Training Revision Date (The date of the most recent review or revision of training programs):	31-Mar-2019

The Type of Training Provided

Classroom:	Yes
On the Job:	Yes
Other Training:	

The Type of Competency Testing Used

Written Tests:	Yes
Oral Tests:	
Demonstration:	Yes
Observation:	
Other Type of Competency Testing Used:	

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures):	31-Mar-2019
Equipment Inspection Date (The date of the most recent equipment inspection or test):	01-May-2019
Equipment Tested (Equipment most recently inspected or tested):	Sprinkler Risers, Fire Doors

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures):	08-Feb-2015
Change Management Revision Date (The date of the most recent review or revision of management of change procedures):	09-Nov-2018

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review):	16-May-2008

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit):	01-May-2019
Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit):	01-May-2019

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)):	
Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation):	

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans):	31-Mar-2019

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures):	31-Mar-2019

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures):	31-Mar-2019
Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance):	08-Mar-2017

Confidential Business Information

CBI Claimed:	

Section 8. Program Level 2

No records found.

Section 9. Emergency Response

Written Emergency Response (ER) Plan

Community Plan (Is facility included in written community emergency response plan?):	Yes
Facility Plan (Does facility have its own written emergency response plan?):	Yes
Response Actions (Does ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?):	Yes
Public Information (Does ER plan include procedures for informing the public and local agencies responding to accidental release?):	Yes
Healthcare (Does facility's ER plan include information on emergency health care?):	Yes

Emergency Response Review

Review Date (Date of most recent review or update of facility's ER plan):	22-Aug-2018

Emergency Response Training

Training Date (Date of most recent review or update of facility's employees):	10-Nov-2018

Local Agency

Agency Name (Name of local agency with which the facility ER plan or response activities are coordinated):	Warren County EPC
Agency Phone Number (Phone number of local agency with which the facility ER plan or response activities are coordinated):	(908) 454-5500

Subject to

OSHA Regulations at 29 CFR 1910.38:	Yes
OSHA Regulations at 29 CFR 1910.120:	Yes
Clean Water Regulations at 40 CFR 112:	Yes
RCRA Regulations at CFR 264, 265, and 279.52:	Yes
OPA 90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254:	
State EPCRA Rules or Laws:	Yes
Other (Specify):	

Executive Summary

GENERAL

Avantor Performance Materials Inc. operates a facillity located at 600 N. Broad Street in Phillipsburg, NJ. The facility manufactures product for the laboratory, pharmaceutical, and microelectronics industries.

The Phillipsburg Plant operates under various risk management programs for hazardous materials including the New Jersey Toxic Catastrophe Prevention Act (NJ TCPA) and the Discharge Prevention, Containment, and Countermeasure Act (NJ DPCC), the Federal OSHA Process Safety Management Regulation (OSHA PSM) and Clean Air Act Risk Management Program (EPA-RMP).

ACCIDENTAL RELEASE PREVENTION AND EMERGENCY RESPONSE PLAN

It is Avantor Performance Material's objective to provide a safe and healthful work environment through the prevention of occupational injuries and illnesses, and preventing offsite impacts to public receptors and the environment. Avantor Performance Materials will develop, manufacture, use, distribute, and dispose of chemical products safely and in a manner that insures protection of health and the environment. The company is committed to providing the necessary information and support to employees, customers, distributors, contractors, and the general public so that the same, high standard of care is applied in the handling of our products throughout their life cycle.

FACILITY DESCRIPTION AND REGULATED SUBSTANCES

Avantor Performance Materials - Phillipsburg manufactures inorganic and organic salts and purifies acids and solvents. The facility is located on a 25-acre parcel in Phillipsburg, NJ and Lopatcong Township, NJ, and is comprised of about 60 buildings containing manufacturing operations, utility services, and warehousing.

The EPA-regulated products are ammonia, hydrochloric acid, pentane, and ethyl ether. All products are purified on site either through filtration or distillation. Ammonia is mixed with other materials to form organic and inorganic salts and solutions.

FIVE YEAR ACCIDENT HISTORY

Avantor Performance Materials handles millions of pounds of regulated products each year. There have been no incidents which have involved deaths, injuries, or significant property damage on or off-site, and there are no instances of adverse impact to the employees, community, or the environment in the past five years.

THE EMERGENCY RESPONSE PROGRAM

Avantor Performance Materials, Phillipsburg has an emergency response program that includes administrative and operational response procedures, training, and drills. This program includes interface with the LEPCs and other emergency response groups, and has been audited by state and federal agencies many times. Avantor Performance Materials works closely with the local response organizations, has included representatives as drill observers, and supports responder training through the loan of equipment and facilities for training purposes.

PLANNED CHANGES TO IMPROVE SAFETY

Avantor Performance Materials uses a variety of means to prevent accidental releases. These include written procedures and training, preventive maintenance, change management and permitting procedures, incident investigations, inspections, audits and drills. Additionally, there are many engineering controls in place that include remote sensing alarms, automatic shutdown systems, pressure relief systems, spill containment, and water and foam vapor suppression systems that provide multiple layers of protection. An active Process Safety engineering efforts, various internal leadership teams and audits by corporate, local, state, and federal

agencies further insure an environment of continuous improvement and incremental risk reduction.